



# Blockchain in Secure Land Administration: A Study of South African Townships' Certificates Access

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## Abstract

Blockchain technology has emerged as a promising solution for enhancing transparency and security in land administration processes. In South Africa's townships, where traditional land management systems are often fraught with inefficiencies and corruption, blockchain offers a potential pathway to more secure and accessible land ownership certificates. The research employs a qualitative approach, involving semi-structured interviews with stakeholders including local government officials, community leaders, and affected individuals. Data collection was conducted through face-to-face meetings in selected townships across South Africa. Interviews revealed that blockchain's potential for enhancing certificate accessibility is particularly pronounced among residents who have faced difficulties accessing official land records due to corruption or bureaucratic delays. A notable theme emerged regarding the ease of verifying ownership certificates using a decentralized ledger system. Blockchain technology can significantly improve access and security in South African townships' land administration processes, offering a viable alternative to traditional methods characterized by inefficiencies and corruption. Given the findings, it is recommended that South African authorities consider piloting blockchain solutions in selected areas before broader implementation. This pilot would help address any initial technical or regulatory challenges.

**Keywords:** *Geographical Indicators of Africa, Land Rights, Community Participation, Access Control, Digital Identity Verification*

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